AUSTRALIAN MATHEMATICS COMPETITION
WARM-UP PAPER
UPPER PRIMARY 7

1. The value of $2694 \div 100$ is

(A) 2.694   (B) 26.94   (C) 269.40   (D) 26 940   (E) 269 400

2. How much would you save with a supermarket *'4 c off per litre'* petrol voucher if you buy 30 litres of petrol?

(A) \$30   (B) \$4   (C) \$4.30   (D) \$1.20   (E) \$12

3. In Alice Springs one day the temperature was -2 degrees Celsius at 6 am. At 2 pm the temperature was 10 degrees Celsius. By how many degrees Celsius had the temperature changed?

(A) 2   (B) 6   (C) 8   (D) 10   (E) 12

4. Henry covers his desk using 100 post-it notes. Sally's post-it notes are half th area of Henry's and her desk is twice the area. How many of Sally's post-it notes will she need to cover her desk?

(A) 25   (B) 50   (C) 100   (D) 200   (E) 400

5. Five towns are joined by a system of roads as shown.
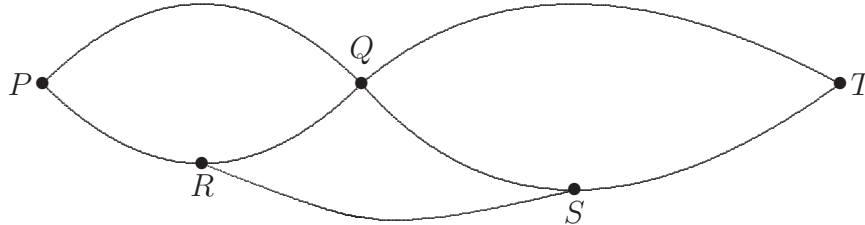
How many different ways are there of travelling from town P to town T if, on any particular journey, no road is used more than once and no town is passed more than once?

(A) 4   (B) 5   (C) 6   (D) 7   (E) 8

6. Sally and Fred weigh a total of 59 kg when they stand on the scales together. Sally and Anne together weigh only 53 kg. Fred and Anne together weigh 62 kg. How much does Sally weigh?

(A) 25 kg   (B) 28 kg   (C) 34 kg   (D) 53 kg   (E) 59 kg

7. Mel's crayons are red, green and blue and he has at least one green crayon. If all of them are green except two, all of them are blue except 2 and all are red except 2, how many crayons does Mel have?

(A) 3   (B) 4   (C) 6   (D) 8   (E) 12

8. Gina has three children and one of them is a teenager. When she multiplies her children's ages together the result is 770. How old is the teenager?

(A) 13   (B) 14   (C) 15   (D) 16   (E) 17

9. In the year 5 classroom, the desks are arranged in equal rows. Phil sits at the desk that is fourth from the front and third from the back. There are four desks on the right of Phil's desk but only one to the left. How many desks are there in the room?

10. An apartment block has a number of square apartments and a number of square gardens. Apartments must have at least one window, either to the outside or to a garden. In figure 1, one apartment has a window to an internal garden G, and ten have windows to the outside.
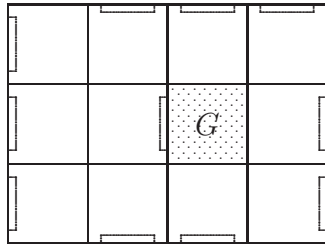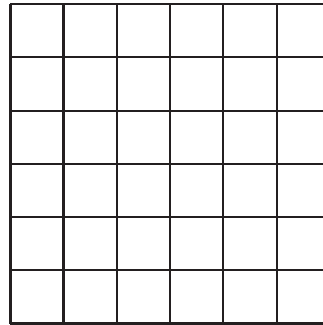

figure 1

figure 2

What is the smallest number of gardens needed for an apartment block built on a 6×6 square, as in figure 2, so that each apartment has a window to the outside or to an internal garden?